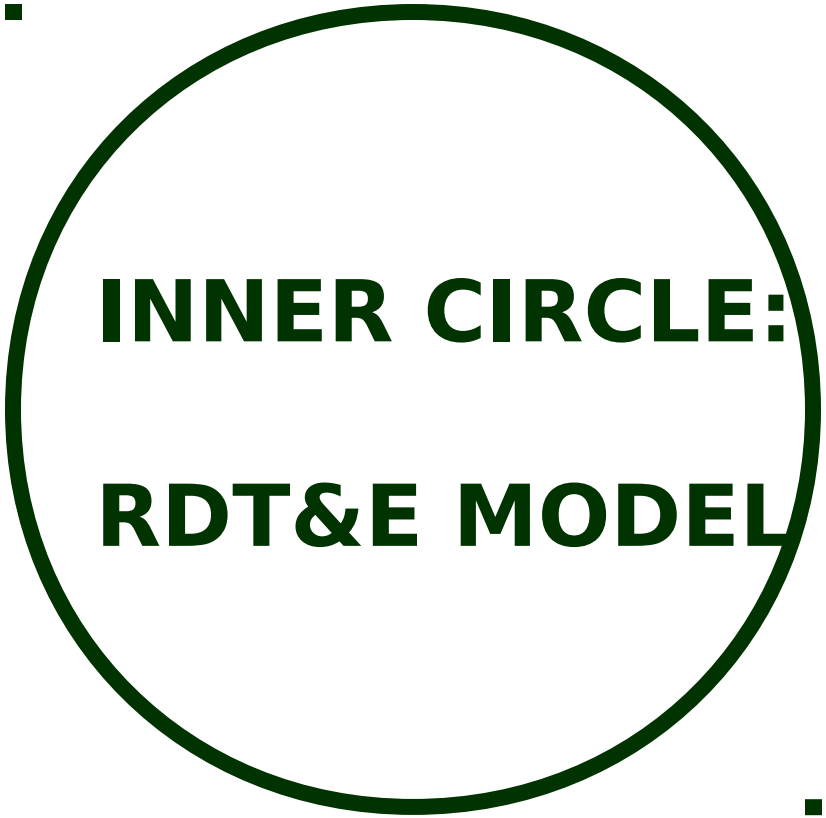
The Research and Development, Test & Evaluation Cycle

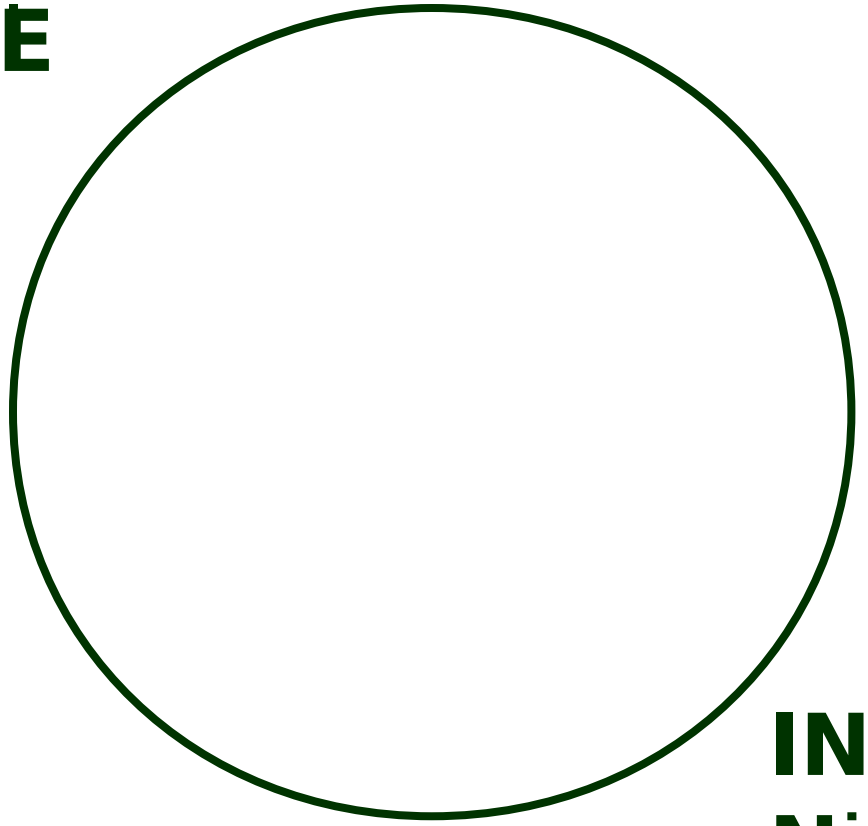
Bill Whalen
DTIC Regional Office
937-255-7905

The RDT&E Cycle



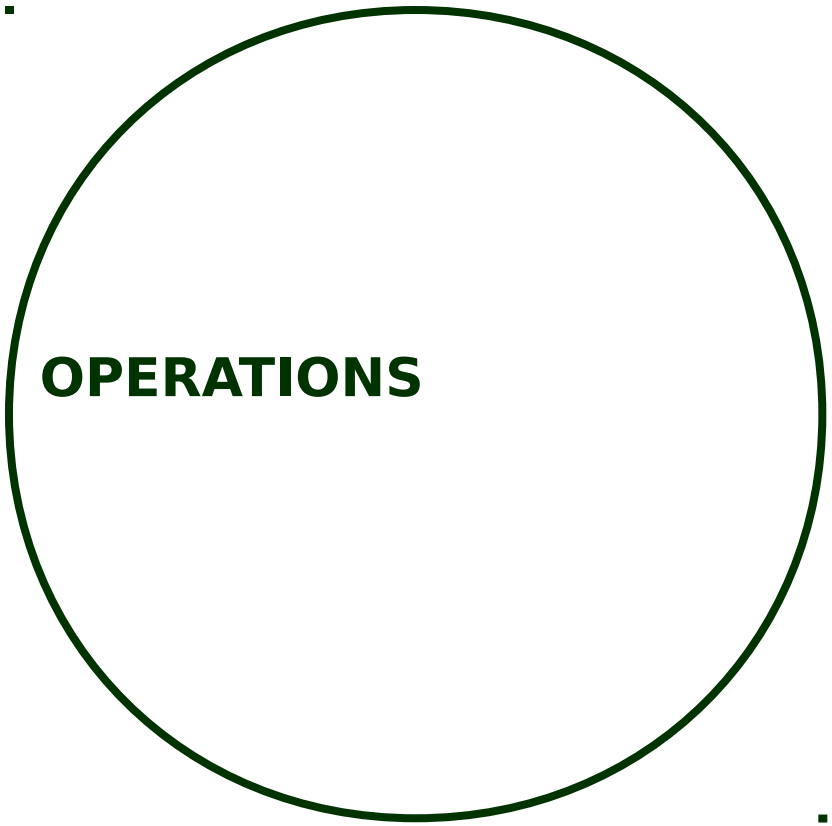
The RDT&E Cycle

OUTSIDE CIRCLE:



INFORMATION PRODUCTS

The RDT&E Cycle

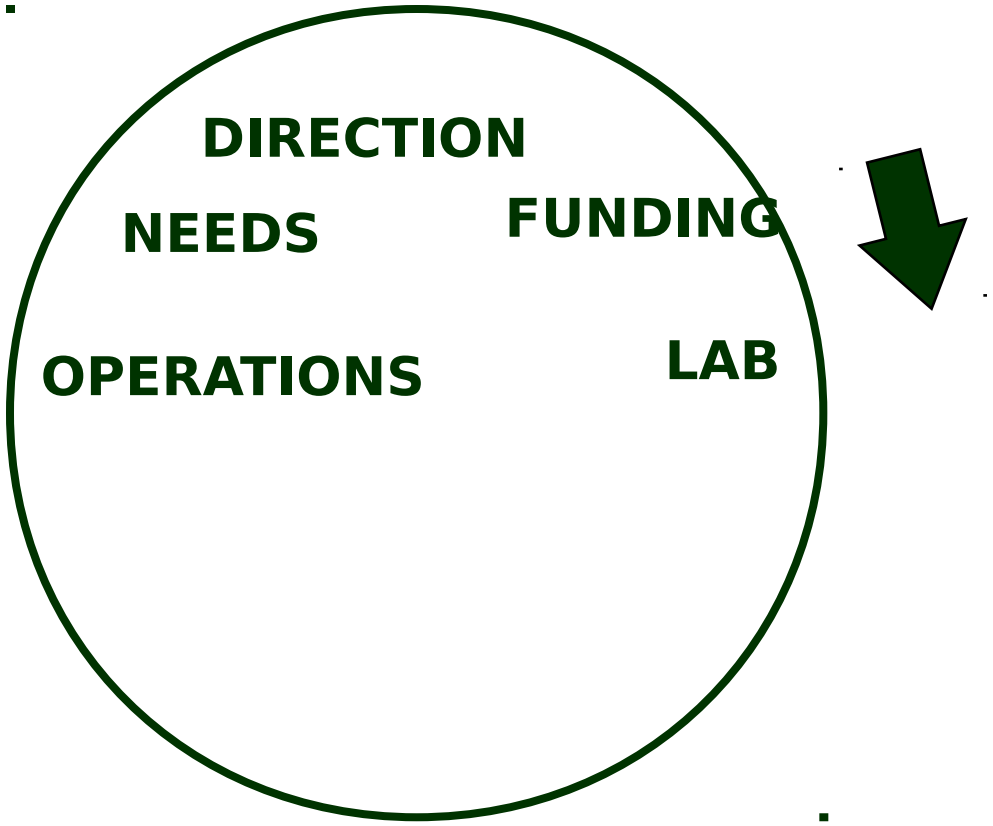


The RDT&E Cycle

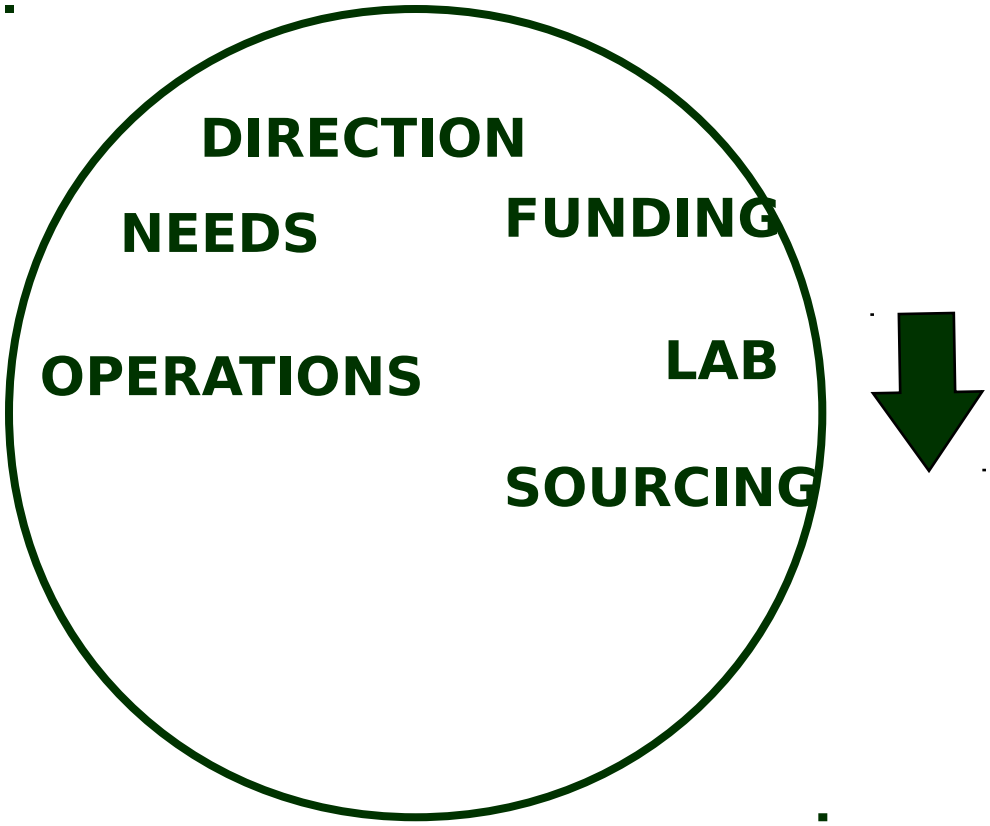
The RDT&E Cycle

The RDT&E Cycle

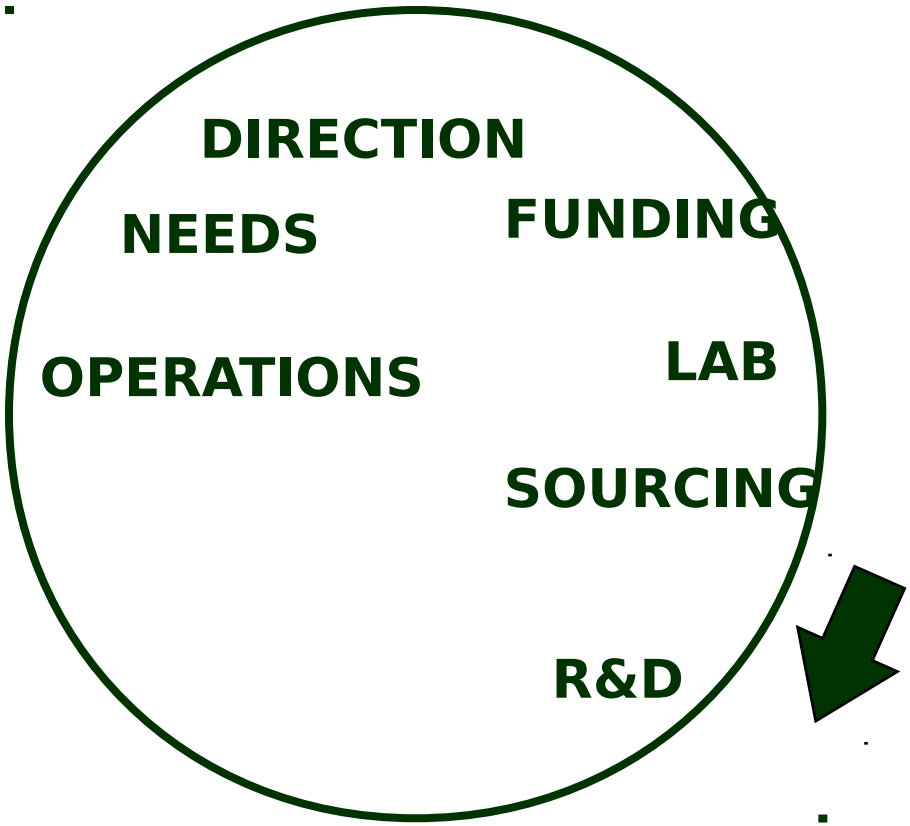
The RDT&E Cycle



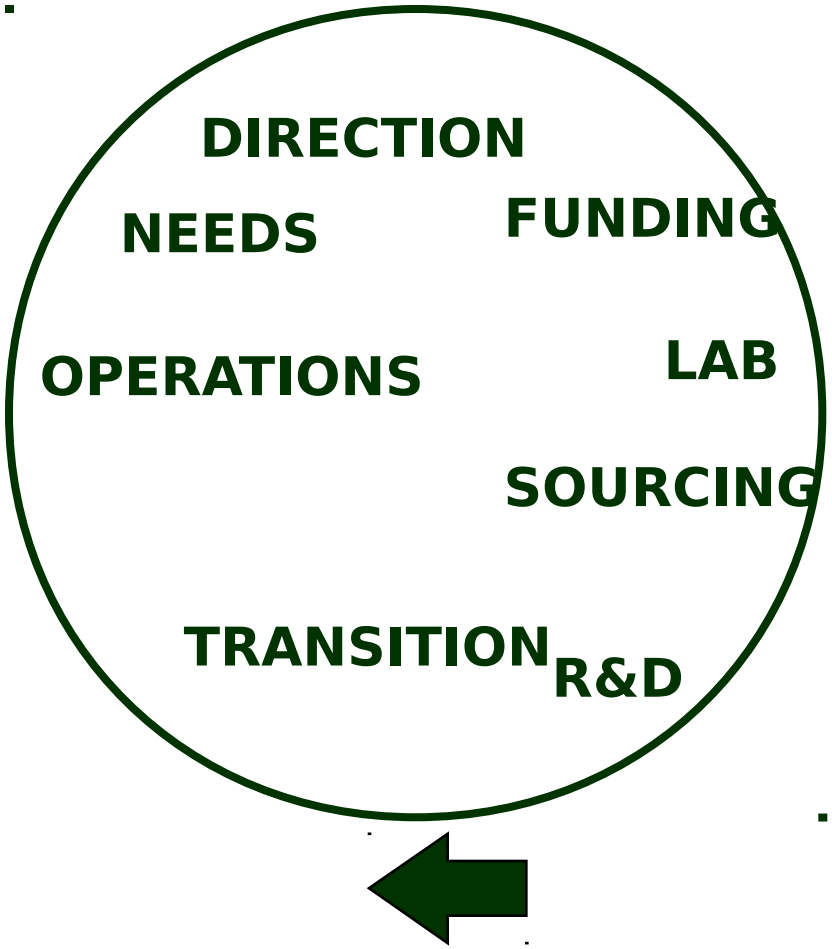
The RDT&E Cycle



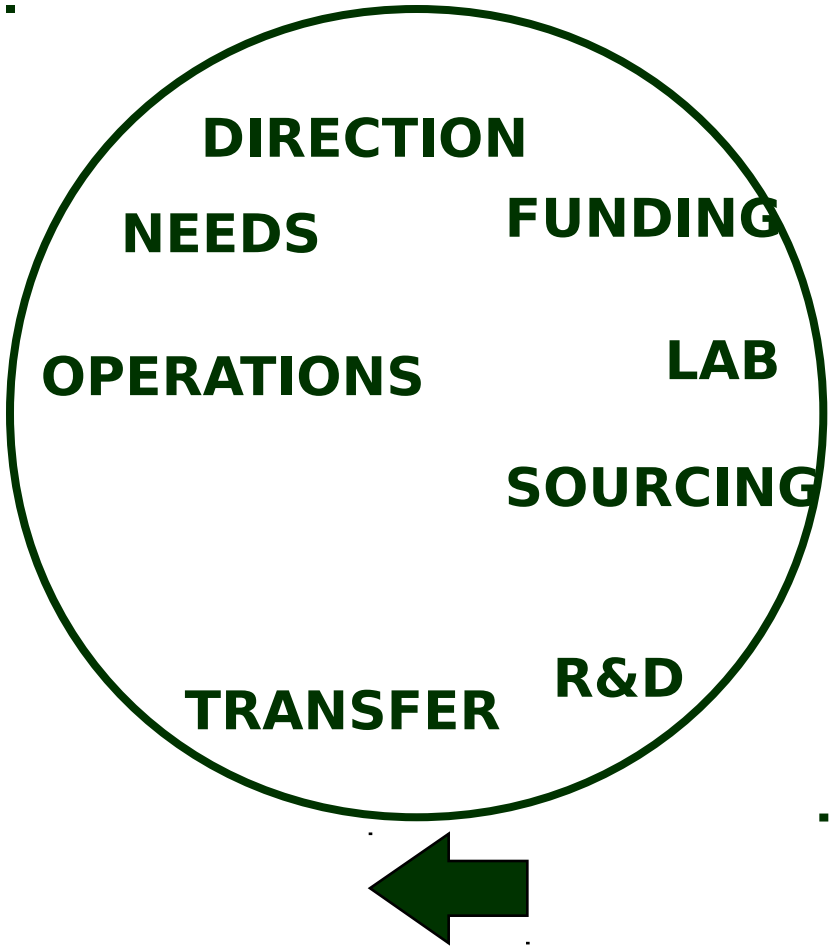
The RDT&E Cycle



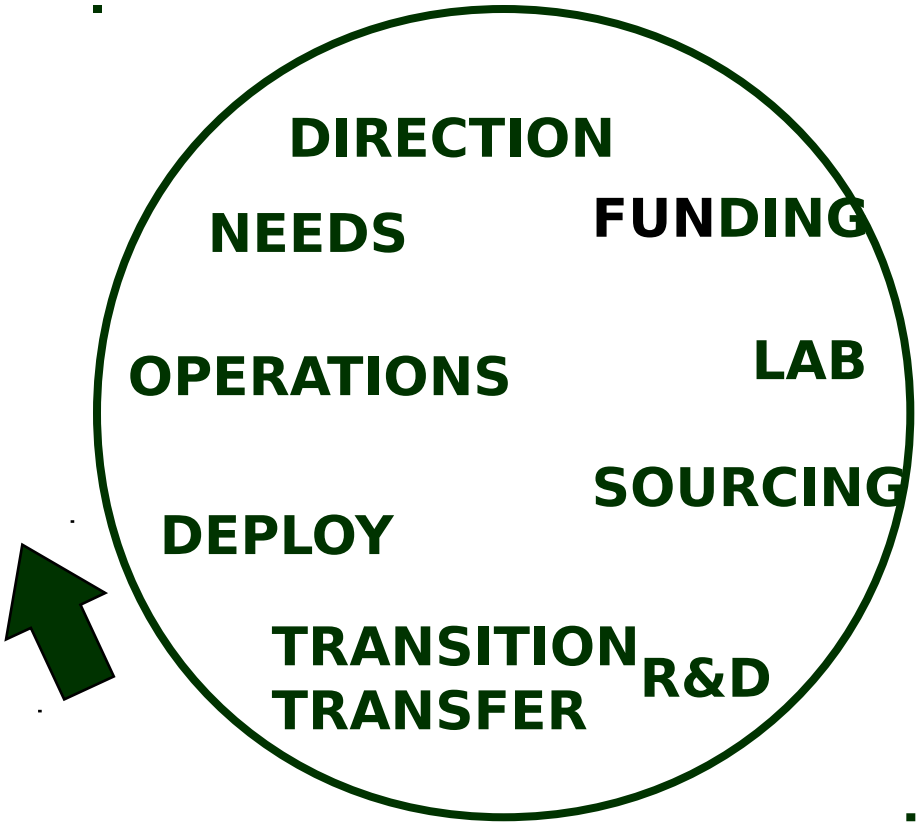
The RDT&E Cycle



The RDT&E Cycle

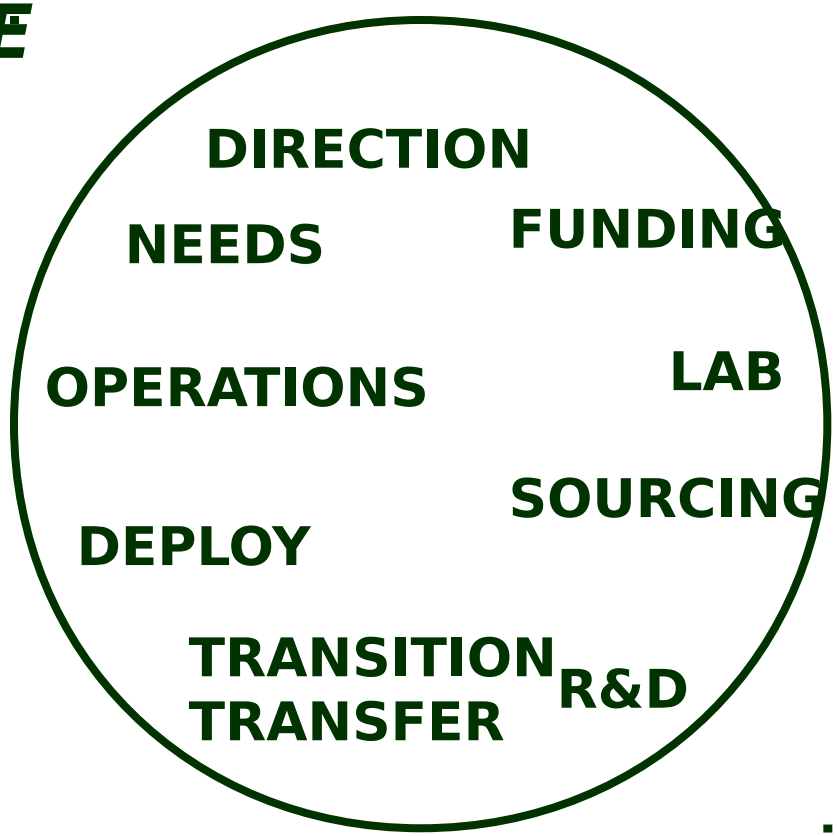


The RDT&E Cycle



The RDT&E Cycle

GUIDANCE



Information Products

The RDT&E Cycle

Guidance Documents

- Defense Science and Technology Strategy
- Basic Research Plan
- Defense Technology Area Plan
- Joint Warfighting S&T Plan
- Defense Technology Objectives
- http://www.dtic.mil/dstp/index.html

The RDT&E Cycle

AD Number:
ADA310992
OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING WASHINGTON DC

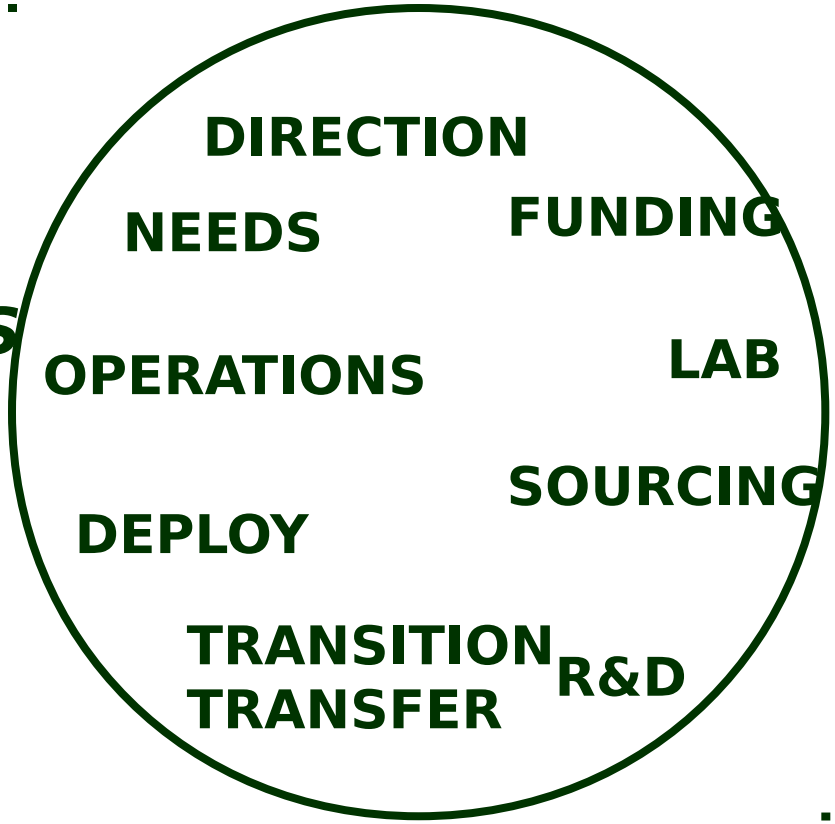
Title:

Basic Research Plan.

Report Date:
MAY 96
Pagination:
102 PAGES

Abstract:
The DoD Basic Research Program has long played a crucial role in the development of technology and in the education and training of scientific personnel required to support continuing technical advances critical to maintaining superior military capabilities. As the initial and fundamental step in the process of scientific discovery, Basic Research can have considerable impact on the development cycle time and the operational capability of a broad range of military systems. This Basic Research Plan (BRP) addresses these important issues by providing a strategy that is flexible with respect to current budget priorities but also properly structured to effectively respond to requirements of the

The RDT&E Cycle



Information Products

The RDT&E Cycle

Requirements Documents

- Mission Need Statements (MNS)
- Operational Requirements Documents (ORD)
- Statement of Need, Statement of Requirements Documents (SONs, SORDs)
- “COMMUNICATING REQUIREMENTS” <http://www.dsp.dla.mil/documents/sd-16.html>

The RDT&E Cycle

Mission Need Statement (MNS) for Global Command and Control System (GCCS)

AD Number:
ADA334338
Fields & Groups:
COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS
Corporate Author:
OFFICE OF THE SECRETARY OF DEFENSE WASHINGTON DC
Title:
Mission Need Statement (MNS) for Global Command and Control System (GCCS)
Report Date:
MAY 1995
Pagination:
9 PAGES
Abstract:
This MNS is intended to be one of several within the C4I for the Warrior Concept (C4IFTW) and defines the C4I capability that must exist from the National Command Authorities (NCA) to the CINCs; between the supported and supporting CINCs; from the supported CINC to the Commander Joint Task Force (CJTF); and from the CJTF to the component commands. This MNS states a required need for selected common functionality between the combatant commands, Services, and

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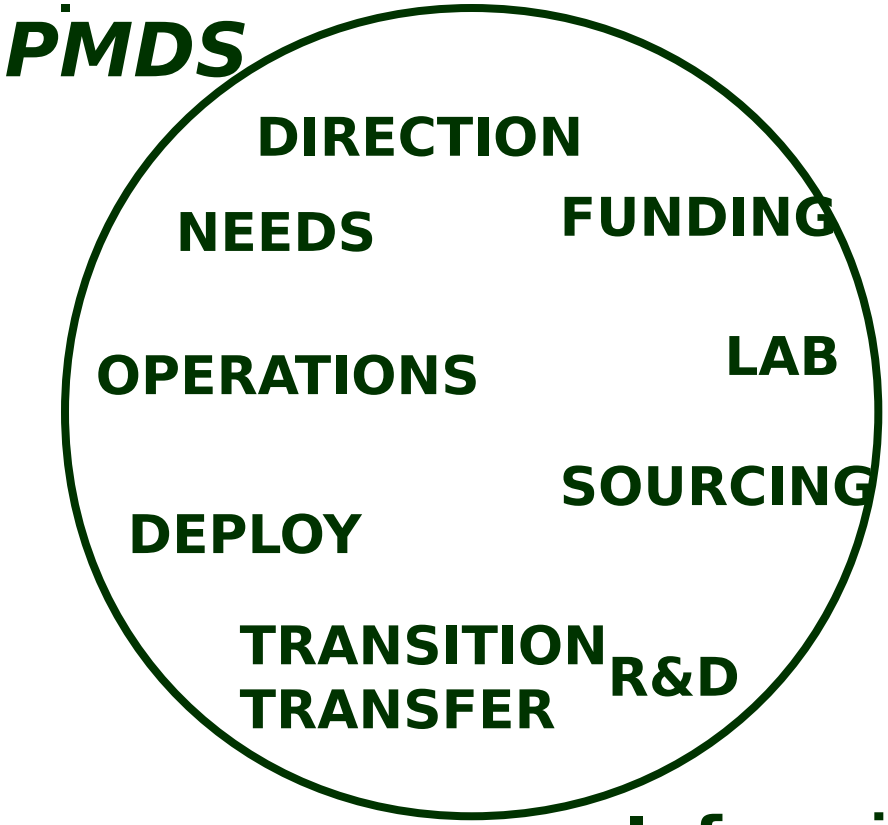


Information Products

The RDT&E Cycle

Program Management Documents

- Program Management Directives

The RDT&E Cycle

Program Management Directive for Standoff Attack Weapon System.

AD Number:
ADA303692

Corporate Author:
DEPARTMENT OF THE AIR FORCE WASHINGTON DC

Title:
Program Management Directive for Standoff Attack Weapon System.

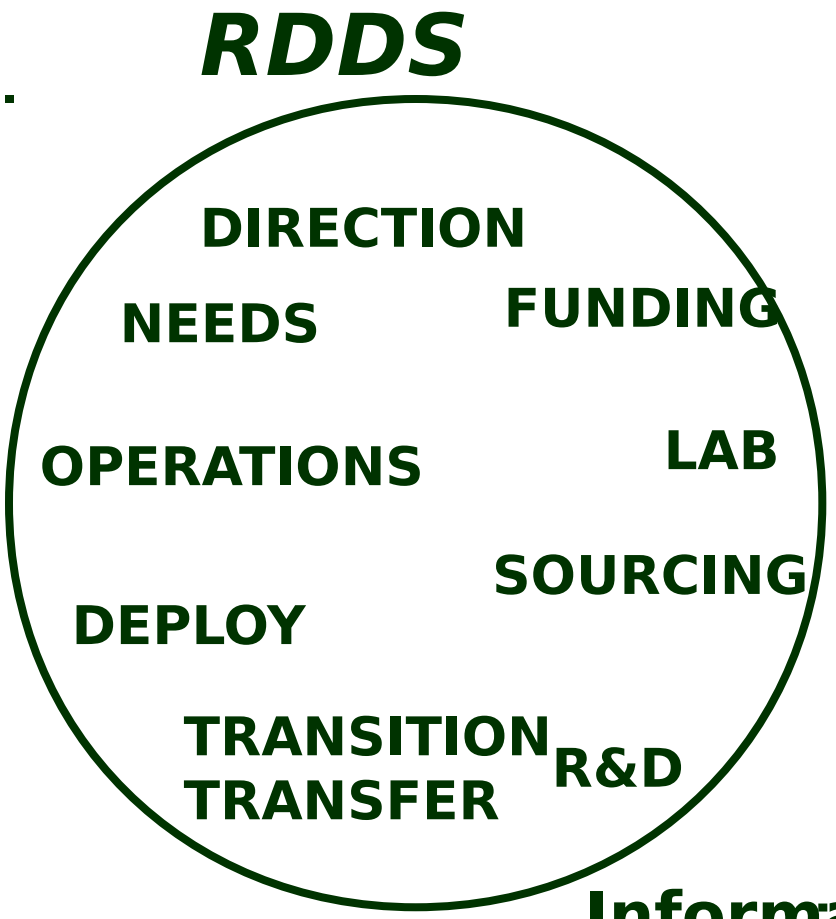
Report Date:
20 NOV 95

Pagination:
11 PAGES

Report Number:
PMD-3048(39)

Abstract:
This PMD provides direction for continued production of the AGM-l30 missile; development and production of the AOM-l30C (BLU-lO9 warhead); incorporation of charged couple device (CCD) and focal plane array (FPA) seekers as producibility projects; inclusion of midcourse guidance capability; support of the integration of the AGM-130A and AGM-l30C on the F-l5E; development and production of Advanced Support Equipment (ASE); continued production of the Weapon Data Link (WDL); modification of the AXQ-14 pod to include a data recording capability; development of Contractor Logistics Support (CLS) or equivalent repair capability; and development of a mission planning software module for the OBU-l5 and AGM-l30. In addition, this document directs the AGM- l30 System Program Office to procure supplemental weapon modules to serve as test vehicles for technology insertion initiatives, to evaluate technology options for producibility enhancement, and to assess AGM-l30/GBU-l5

The RDT&E Cycle



The RDT&E Cycle

Research & Development Descriptive Summaries

- RDDS Data Base <http://www.dtic.mil/rdds/>
- Descriptive Summary Handbook <http://www.safaq.hq.af.mil/library/budget/handbook/>

The RDT&E Cycle

February 1998
2 - Applied Research 0602618A Ballistics Technology
BUDGET ACTIVITY PE NUMBER AND TITLE
PE NUMBER: 0602618A
UNCLASSIFIED
PE TITLE: Ballistics Technology
RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)
***Page 1 of 9 Pages* Exhibit R-2 (PE 0602618A)**
UNCLASSIFIED

COST *(In Thousands)*		**FY 1997**	**FY 1998**	**FY 1999**	**FY 2000**	**FY 2001**
Total Program Element (PE) Cost	**39248**	**40042**	**31115**	**34900**	**38352**	
AH37 Liquid Propellant Technology	**7149**	**3877**	**0**	**0**	**0**	
AH75 Electric Gun Technology	**7632**	**11660**	**7640**	**9000**	**9000**	
AH80 Ballistics Technology	**20173**	**20350**	**22167**	**23067**	**26169**	
AH81 Armor/Anti-Armor Technology	**4294**	**4155**	**1308**	**2833**	**3183**	

Mission Description and Budget Item Justification: This program element (PE) provides ballistic technologies required for armaments and armor to allow US dominance in future conflicts across a full spectrum of threats in a global context. Project AH37 is directed toward solving remaining technology challenges identified under previous attempts to weaponize liquid propellant (LP) technology. It capitalizes on the large Army investment in LP technology. Project AH75 focuses on pulsed power technologies for electric armaments which offer the potential to field leap-ahead capability in providing hypervelocity and hyperenergy launch well above the ability of the conventional cannon. Project AH80 is focused on applied research in ballistics technology to enhance the lethality and survivability of future weapons. Work in this program element has been coordinated with the other military services through the Weapons Technology Area Plan to prevent duplication of effort and to maximize the return on investment. One result of this process is the Army's leveraging of Navy and Defense Special

The RDT&E Cycle

6.1__RESEARCH

6.2__EXPLORATORY DEVELOPMENT

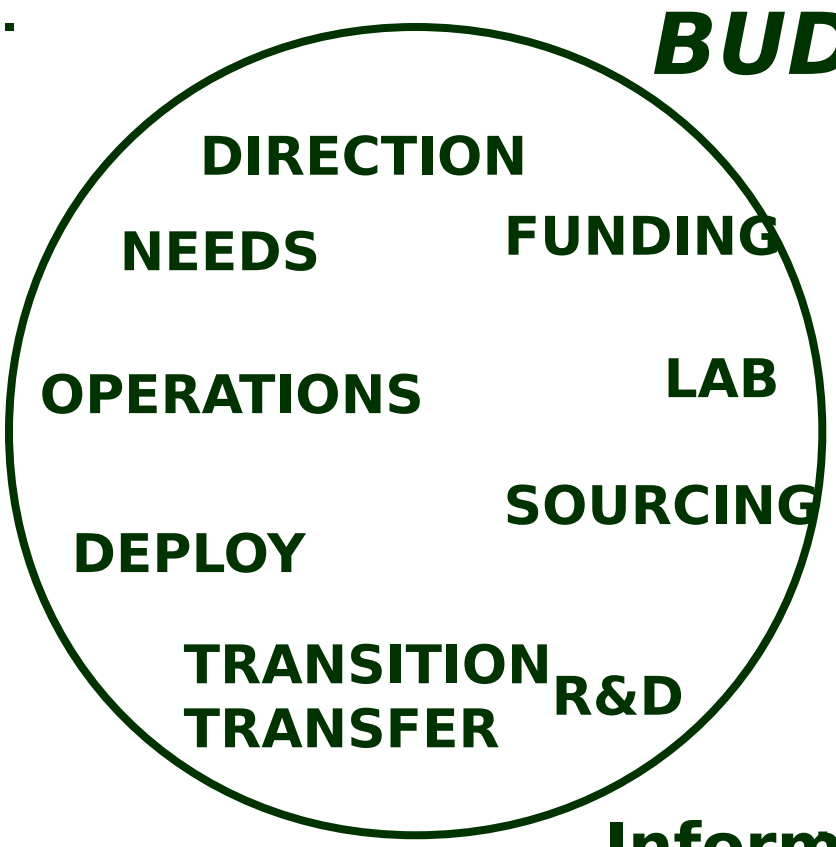
6.3__ADVANCED DEVELOPMENT

6.4__ENGINEERING DEVELOPMEN

6.5__MANAGEMENT

7.8__MAN TECH

The RDT&E Cycle



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Budget Documents

- R-1
- P-1

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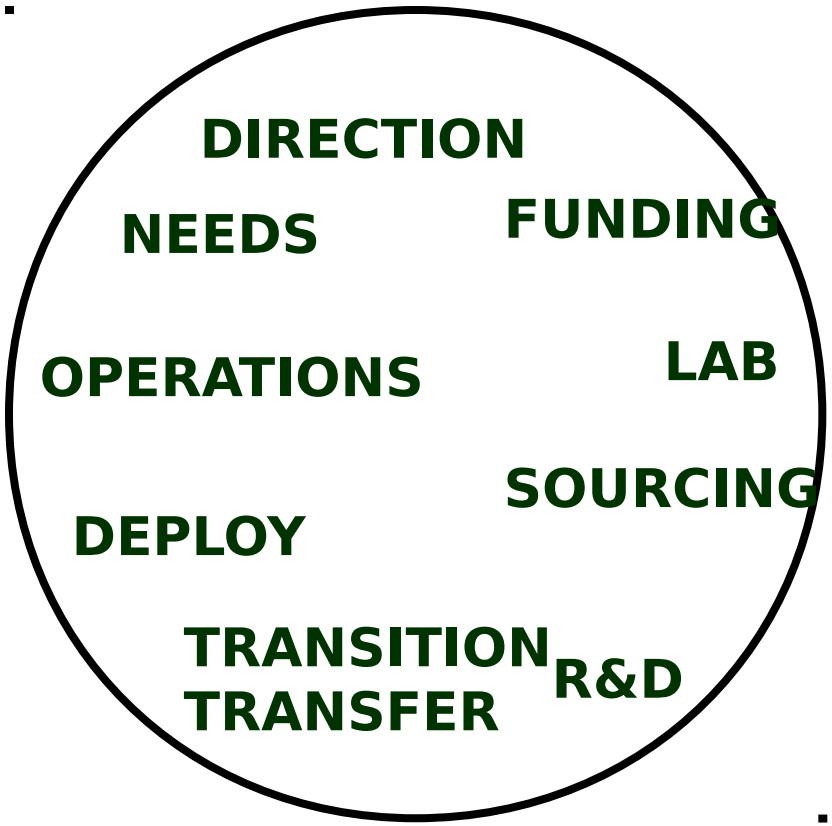

PLANS

Information Products

The RDT&E Cycle

RDT&E Planning Documents

- Air Force: Technology Area Plans
- Army: Advanced Planning Briefings to Industry
- Navy: Various

The RDT&E Cycle

Army Information Centers

Technical Industrial Liaison Office

ATTN: AMCRDA-AI-TILO

5001 Eisenhower Avenue

Alexandria, VA 22333-0001

Ms. Anne Kinkella

(703) 617-8948

http://www.amc.army.mil/amc/rda/tilomenu.html

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Navy Information Center

Navy Acquisition Research & Development Information Center

2211 South Clark Place

Arlington VA 22244-5114

Ms. Louise Rice

(703)602-9057

http://nardic.nrl.navy.mil/

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Air Force Information Center

Air Force Information for Industry Office

DET 1 AFRL/WST

Building 570 Room S-122

2690 C Street

Wright-Patterson AFB, OH 45433-7411

Mr. Dave Ryans

(937) 255-5767 or DSN 785-5767

http://www.wrs.afrl.af.mil/infores/library/afifio.htm

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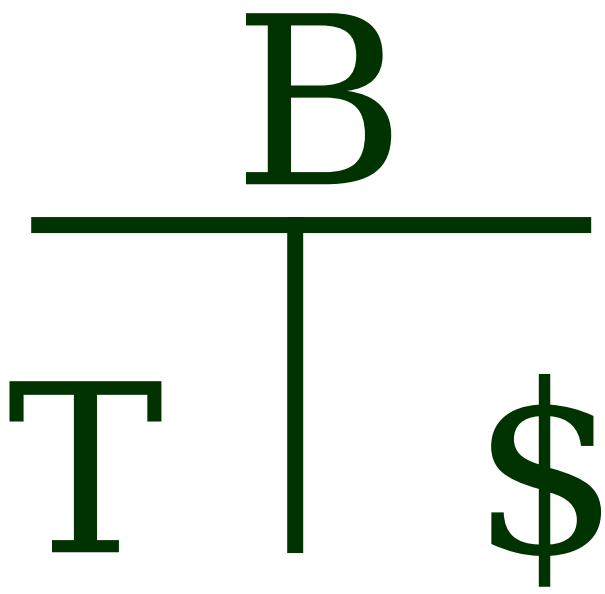
Bureaucratic Search Law:



The RDT&E Cycle

Whalen's Corollary:

NEVER bring a problem to a bureaucrat.

The RDT&E Cycle

NEW START SEARCH

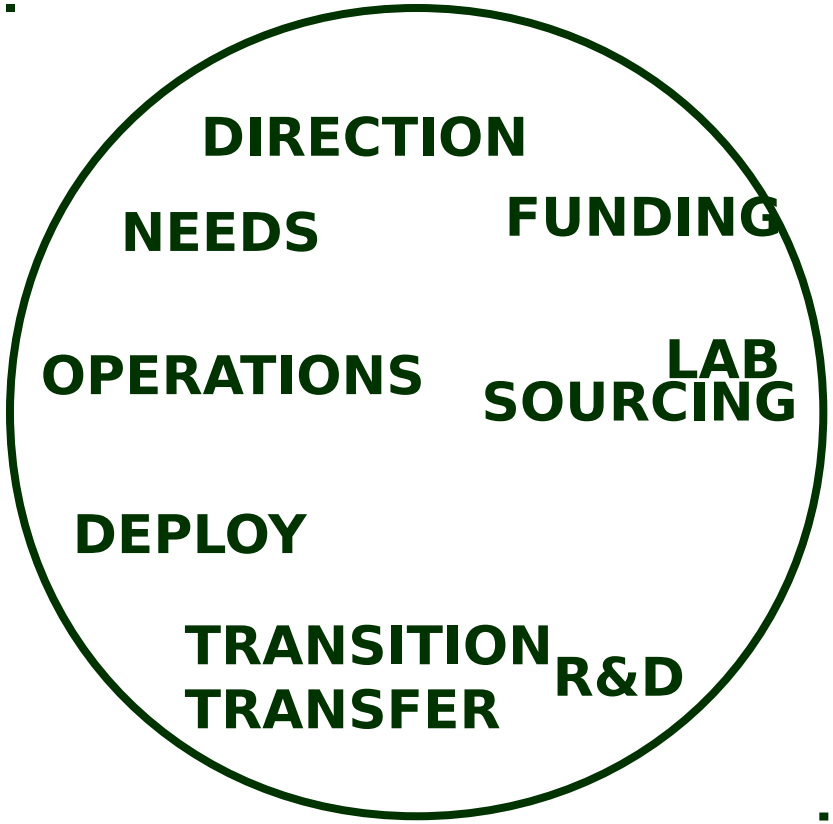
Information Products

The RDT&E Cycle

New Start Searches

- Technical Report Data Base
- TEAMS Data Base
- IR&D Data Base
- Information Analysis Centers
- Open Literature

The RDT&E Cycle



VEHICLES

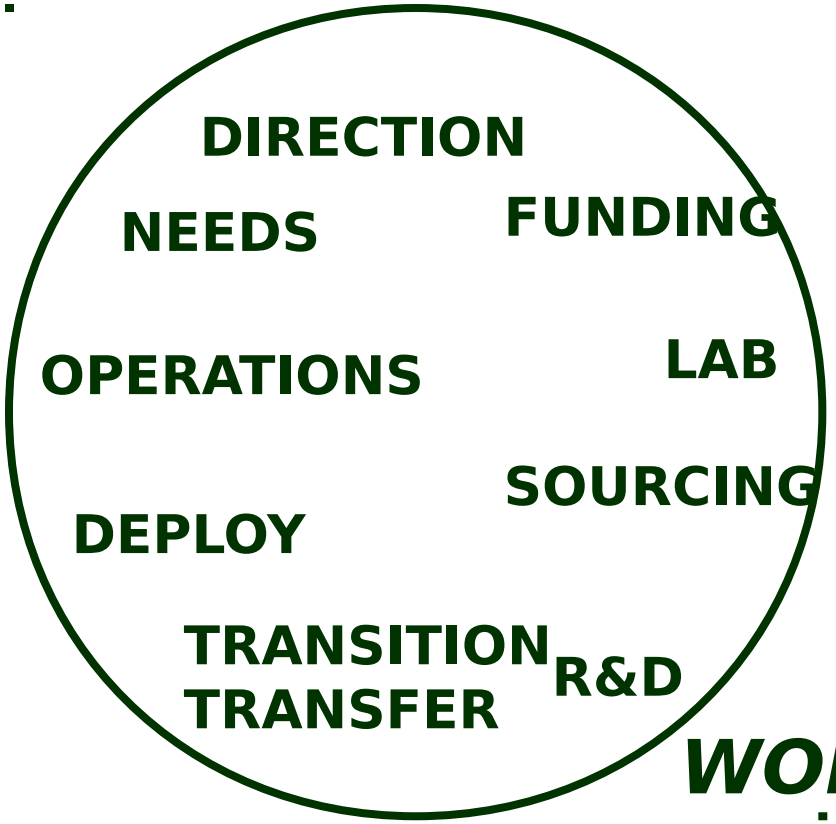
Information Products

The RDT&E Cycle

SOURCING Vehicles

- Contracts
  - PRDA, BAA, SOL
- Grants
  - DEPSCoR, URI, HBCU/MI
- Commerce Business Daily
- EC/EDI
- DoD SBIR and STTR Programs

The RDT&E Cycle



WORK UNITS

Information Products

The RDT&E Cycle

Work Units

- Data Base

The RDT&E Cycle

DOCUMENTATION **Information Products**

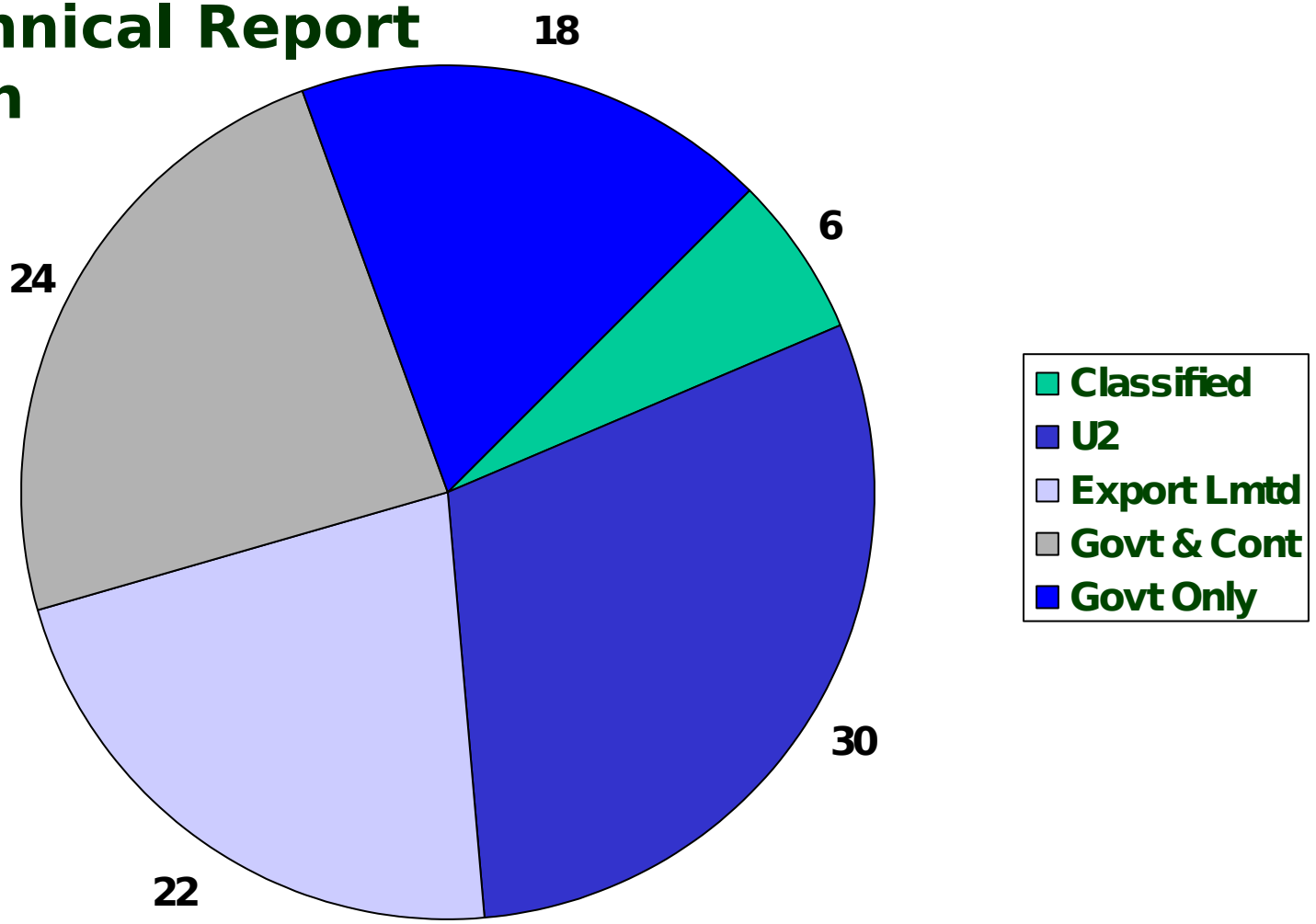
The RDT&E Cycle

Documentation

- Technical Reports
- Journal Articles
- Papers
- Conference Proceedings

The RDT&E Cycle

DTIC Technical Report Collection



The RDT&E Cycle

Information Products

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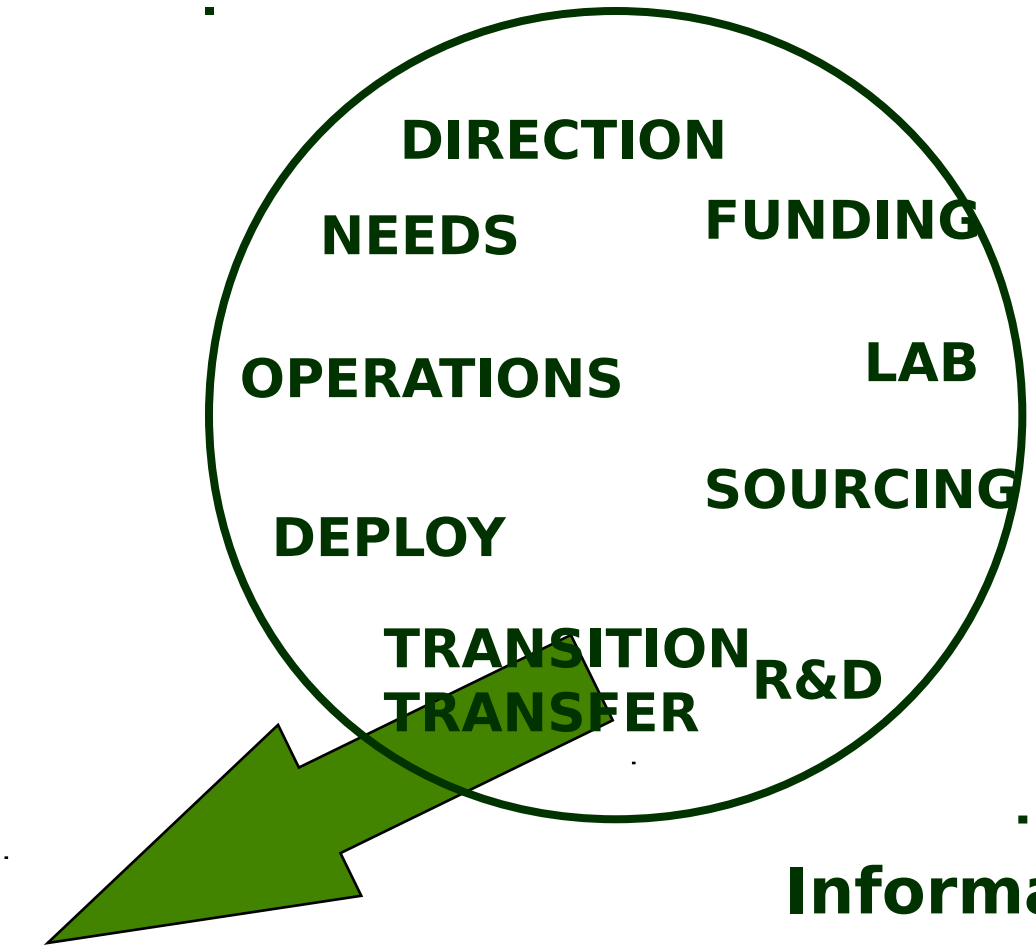
Technology Transition

- RDT&E
- Leverage

The RDT&E Cycle



The RDT&E Cycle

Technology Transfer

- Documentation
  - Technical Reports
  - Patent Applications
- Contacts
  - Responsible Individuals
  - Principal Investigators

The RDT&E Cycle